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| ECM #72212 PO Box 4668 New York, NY 10163-4668 | | | TOLENTINO, RODERICK | | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Application No. Applicant(s) 10/600 547 NUMAO ET AL. Office Action Summary Examiner Art Unit Roderick Tolentino 2134 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 16 June 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-10 and 20-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-10,20 and 21 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10)⊠ The drawing(s) filed on 20 June 2003 is/are: a)⊠ accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application 31 Information Disclosure Statement(s) (PTO/SB/06)

Paper No(s)/Mail Date _

6) Other:

Application/Control Number: 10/600,547 Page 2

Art Unit: 2134

DETAILED ACTION

 Claims 1 – 10 and 20 – 21 are pending. Applicant canceled claims 11 – 19 and 22 – 25.

Specification

The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Response to Arguments

- Applicant's arguments filed 06/19/2008 have been fully considered but they are not persuasive.
- 4. Applicant argues that Matsumoto in view of Hirano fails to disclose, teach or even suggest, "a user terminal for accessing said key management server to obtain attribute secret keys generated based on said secret keys, said attribute secret keys corresponding to attributes identifying said user terminal," in regards to claim 1.

 Examiner respectfully disagrees. Matsumoto in view of Hirano teaches a user terminal for accessing said key management server to obtain attribute secret keys generated based on said secret keys, said attribute secret keys corresponding to attributes identifying said user terminal (Hirano, Paragraph 0098, key based on user's information). Hirano shows a content user using keys to decrypt information, to obtain a

Page 3

Application/Control Number: 10/600,547

Art Unit: 2134

content key to decrypt encrypted content. Further Hirano on Paragraph 0079, shows how a content user are made up of terminals such as personal computers and workstations etc. This reads on the claim language argued by applicant.

5. Further, applicant argues that it would not be obvious to combine Matsumoto and Hirano. Examiner respectfully disagrees. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Hirano's method for facilitating legitimate use of digital content with Matsumoto's key management server and chat system because it offers the advantage of protecting computerized data from unauthorized access (Hirano, Paragraph 0006). Both systems deal with key information used to access encrypted information.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary sikl lin the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1, 3, 4, 6 10, 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsumoto U.S. Patent No. (6,215,877) in view of Hirano et al. U.S. PG-Publication (2001/0004736).
- 8. As per claims 1, 20 and 21, Matsumoto teaches a key management server for managing secret keys and public keys corresponding to given attribute values and a provider terminal for generating an encrypted content that can be decrypted by said

Application/Control Number: 10/600,547

Art Unit: 2134

user terminal having said attribute secret keys corresponding to given attributes by means of said public keys (Matsumoto, Col. 2 Lines 60 – 67 and Col. 3 Lines 1 – 5), wherein said provider terminal distributes said encrypted content and said user terminal decrypts said encrypted content decryptable by means of said attribute secret keys of its own (Matsumoto, Col. 4 Lines 57 – 67) but fails to teach a user terminal for accessing said key management server to obtain attribute secret keys generated based on said secret keys, said attribute secret keys corresponding to attributes identifying said user terminal. However, in an analogous art Hirano teaches a user terminal for accessing said key management server to obtain attribute secret keys generated based on said secret keys, said attribute secret keys corresponding to attributes identifying said user terminal (Hirano, Paragraph 0098, key based on user's information).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Hirano's method for facilitating legitimate use of digital content with Matsumoto's key management server and chat system because it offers the advantage of protecting computerized data from unauthorized access (Hirano, Paragraph 0006).

9. As per claim 3, Matsumoto teaches user terminal sends a set of attribute values indicating attributes of its own to said key management server; and said key management server generates said attribute secret keys unique to said user terminal based on, among said secret keys managed by said key management server, secret keys corresponding to the attribute values sent from said user terminal and sends said attribute secret keys to said user terminal (Matsumoto, Col. 4 Lines 37 – 49).

Application/Control Number: 10/600,547 Page 5

Art Unit: 2134

10. As per claim 4, Matsumoto as modified teaches a key storage for storing secret keys and public keys corresponding to predetermined attribute values; an attribute secret key generator for obtaining a set of given attribute values and generating attribute secret keys corresponding to said set of attribute values based on secret keys corresponding to said attribute values among said secret keys stored in said key storage (Matsumoto, Col. 2 Lines 60 – 67 and Col. 3 Lines 1 – 5), and a sending/receiving unit for receiving said set of attribute values from a given user terminal and sending said attribute secret keys generated by said attribute secret key generator to said user terminal (Matsumoto, Col. 4 Lines 57 – 67) wherein said attribute values identifying said user terminal (Hirano, Paragraph 0098, key based on user's information).

11. As per claim 6, Matsumoto teaches an encrypted content generator for encrypting said content based on said criteria keys (Matsumoto, Col. 9 Lines 45 – 65) and a sending unit for sending said encrypted content without specifying any recipient of said content via a network (Matsumoto, Col. 4 Lines 57 – 67) but fails to teach a criteria key generator for obtaining public keys corresponding to attribute values indicating attributes of a recipient to which a content is to be sent and using said public keys to generate criteria keys that can be decrypted by secret keys corresponding to said public keys. However, in an analogous art Hirano teaches a criteria key generator for obtaining public keys corresponding to attribute values indicating attributes of a recipient to which a content is to be sent and using said public keys to generate criteria keys that

Application/Control Number: 10/600,547
Art Unit: 2134

can be decrypted by secret keys corresponding to said public keys (Hirano, Paragraph 0098, key based on user's information).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Hirano's method for facilitating legitimate use of digital content with Matsumoto's key management server and chat system because it offers the advantage of protecting computerized data from unauthorized access (Hirano, Paragraph 0006).

- 12. As per claim 7, Matsumoto teaches criteria key generator combines, based on predetermined rules, criteria keys corresponding to the individual attribute values encrypted by using public keys corresponding to said individual attribute values to generate a criteria key for restricting recipients of said content (Matsumoto, Col. 4 Lines 37 49).
- 13. As per claim 8, Matsumoto disclose criteria key generator generates a session key for encrypting said content and a criteria key for decrypting said session key; and said encrypted content generator uses said session key to encrypt said content content (Matsumoto, Col. 4 Lines 37 49).
- 14. As per claim 9, Matsumoto teaches a sending/receiving unit for accessing a key management server managing (Matsumoto, Col. 4 Lines 57 67) and a decryptor for obtaining an encrypted content and decrypting said content based on said attribute secret keys (Matsumoto, Col. 11 Lines 2 8) but fails to teach secret keys and public keys corresponding to given attribute values to receive attribute secret keys corresponding to attributes established for identifying said information processing

Application/Control Number: 10/600,547
Art Unit: 2134

apparatus, said attribute secret keys being generated based on said secret keys.

However, in an analogous art Hirano teaches teach secret keys and public keys corresponding to given attribute values to receive attribute secret keys corresponding to attributes established for identifying said information processing apparatus, said attribute secret keys being generated based on said secret keys (Hirano, Paragraph 0098, key based on user's information).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Hirano's method for facilitating legitimate use of digital content with Matsumoto's key management server and chat system because it offers the advantage of protecting computerized data from unauthorized access (Hirano, Paragraph 0006).

- 15. As per claim 10, Matsmoto teaches sending/receiving unit sends a set of attribute values established for said information processing apparatus to said key management server and receives said attribute secrete keys generated based on said set of attribute values from said key management server (Matsumoto, Col. 4 Lines 37 49).
- Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over
 Matsumoto U.S. Patent No. (6,215,877) and Hirano et al. U.S. PG-Publication
 (2001/0004736), as applied to claim 1 and in further view of Kawano et al. U.S. Patent
 No. (5,933,605).
- 17. As per claim 2, Matsumoto fails to teach provider terminal distributes said encrypted content without specifying said user terminal that is to receive said encrypted

Application/Control Number: 10/600,547

Art Unit: 2134

content. However, in an analogous art Kawano teaches provider terminal distributes said encrypted content without specifying said user terminal that is to receive said encrypted content (Kawano, Col.11 Lines 40 – 57).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Kawano's apparatus for filtering multicast messages with Matsumoto's key management server and chat system because it offers the advantage of have the data receiving operation that is not dependent on an expansion system (Kawano, Col.11 Lines 40 - 57).

- Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over
 Matsumoto U.S. Patent No. (6,215,877) and Hirano et al. U.S. PG-Publication
 (2001/0004736), and in view of Applicant Admittance Prior Art (hereafter AAPA).
- 19. As per claim 5, Matsumoto in view of Hirano fails to teach attribute secret key generator generates said attribute secret keys by using a protocol implementing oblivious transfer protocol. However, attribute secret key generator generates said attribute secret keys by using a protocol implementing oblivious transfer is taught by applicant on pages 14 and 15. The specification describes oblivious transfer protocol, in order to be used secretly obtain attribute secret keys.

Conclusion

Application/Control Number: 10/600,547
Art Unit: 2134

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roderick Tolentino whose telephone number is (571) 272-2661. The examiner can normally be reached on Monday - Friday 9am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on (571) 272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/600,547

Art Unit: 2134

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Roderick Tolentino Examiner Art Unit 2134

Roderick Tolentino /R. T./ Examiner, Art Unit 2134

/Kambiz Zand/ Supervisory Patent Examiner, Art Unit 2134